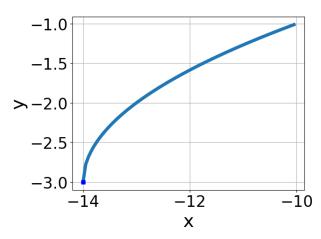
1. Choose the equation of the function graphed below.



A.
$$f(x) = -\sqrt[3]{x+14} - 3$$

B.
$$f(x) = \sqrt[3]{x - 14} - 3$$

C.
$$f(x) = \sqrt[3]{x+14} - 3$$

D.
$$f(x) = -\sqrt[3]{x - 14} - 3$$

- E. None of the above
- 2. What is the domain of the function below?

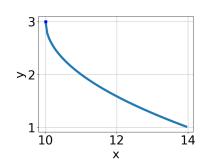
$$f(x) = \sqrt[5]{5x - 9}$$

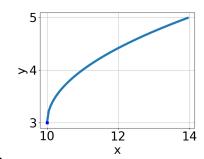
- A. The domain is $[a, \infty)$, where $a \in [1.8, 5.8]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [1.21, 3.04]$
- D. The domain is $(-\infty, a]$, where $a \in [-0.45, 1.48]$
- E. The domain is $[a, \infty)$, where $a \in [-0.44, 1.56]$
- 3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-54x^2 - 12} - \sqrt{-66x} = 0$$

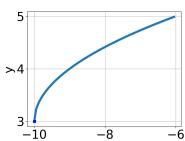
- A. $x \in [0.43, 1.19]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-1.42, -0.22]$ and $x_2 \in [-7, -0]$
- D. $x \in [-0.1, 0.86]$
- E. $x_1 \in [-0.1, 0.86]$ and $x_2 \in [1, 3]$
- 4. Choose the graph of the equation below.

$$f(x) = \sqrt{x - 10} + 3$$





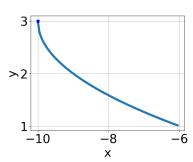




Χ

С.

D.



- В.
- E. None of the above.
- 5. What is the domain of the function below?

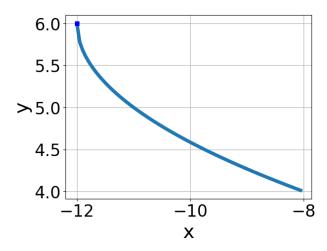
$$f(x) = \sqrt[3]{8x+6}$$

- A. The domain is $[a, \infty)$, where $a \in [-0.88, -0.52]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [-1.02, 0.07]$

- D. The domain is $(-\infty, a]$, where $a \in [-1.55, -1.18]$
- E. The domain is $[a, \infty)$, where $a \in [-1.5, -1.13]$
- 6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{9x - 7} - \sqrt{2x - 4} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [0.24, 0.69]$ and $x_2 \in [-0.9, 1.1]$
- C. $x_1 \in [0.46, 1.06]$ and $x_2 \in [1.4, 3.6]$
- D. $x \in [0.24, 0.69]$
- E. $x \in [1.33, 1.59]$
- 7. Choose the equation of the function graphed below.



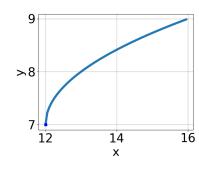
- A. $f(x) = -\sqrt[3]{x+12} + 6$
- B. $f(x) = \sqrt[3]{x 12} + 6$
- C. $f(x) = -\sqrt[3]{x 12} + 6$
- D. $f(x) = \sqrt[3]{x+12} + 6$
- E. None of the above

8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

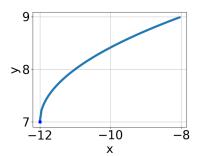
$$\sqrt{63x^2 + 10} - \sqrt{59x} = 0$$

- A. $x_1 \in [0.13, 0.45]$ and $x_2 \in [0.45, 1.13]$
- B. $x_1 \in [-1.01, -0.69]$ and $x_2 \in [-0.77, -0.07]$
- C. $x \in [0.64, 1.16]$
- D. $x \in [0.13, 0.45]$
- E. All solutions lead to invalid or complex values in the equation.
- 9. Choose the graph of the equation below.

$$f(x) = -\sqrt{x - 12} + 7$$

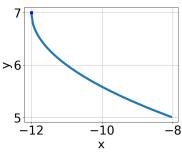


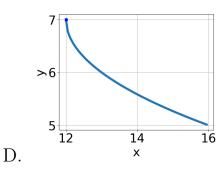
C.



A.

В.





E. None of the above.

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-9x - 4} - \sqrt{-3x - 5} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x \in [-0.05, 0.3]$
- C. $x_1 \in [-1.93, -1.61]$ and $x_2 \in [-1.59, -0.14]$
- D. $x_1 \in [-0.71, -0.36]$ and $x_2 \in [0.11, 0.78]$
- E. $x \in [-1.61, -1.25]$